

Harry D. Ayers Aug 20/97

235



INSTALLATION AND OPERATION MANUAL

(8000 lb)

**SAVE THESE INSTRUCTIONS
READ ALL INSTRUCTIONS**

AUTOMOTIVE SERVICE EQUIPMENT
WHEELTRONIC LTD.
 6500 MILLCREEK DRIVE, MISSISSAUGA, ONTARIO L5N 2W6
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AUG. 1997 6-1149

TABLE OF CONTENTS		PAGE
1.	SAFETY AND OPERATING INSTRUCTIONS	1
2.	SPECIFICATIONS	2
3.	CONTENTS	3
4.	INSTALLATION REQUIREMENTS AND TOOLS	4
5.	INSTALLATION INSTRUCTIONS	
	5.1 Unpacking Procedure	5
	5.2 Bay Layout	6
	5.3 Safety Shut Off Cable Installation	7
	5.4 Safety Shut Off Cable Adjustment	8
	5.5 Tower Positioning and Setup	9
	5.6 Arm Installation	10
	5.7 Power Pack Installation	11
	5.8 Hydraulic System Installation	13
	5.9 Safety Release Cable Routing and Adjustment	15
	5.10 Hydraulic System Bleeding & Leveling Procedure	17
	5.11 Hydraulic Adjustment Procedure	18
	5.12 Tower Positioning and Anchoring	19
	5.13 Shimming of the Remaining Tower	20
	5.14 Arm Locks Installation	21
6.	PERIODIC MAINTENANCE	22
7.	PARTS MANUAL	
	a. Lift Assembly Diagram	24
	b. Lift Part List	25
	c. Hydraulic System Diagram	27
	d. Hydraulics Part List	28
	e. Power Pack Diagram	29
	f. Power Pack Part List	30

1. SAFETY AND OPERATING INSTRUCTIONS

1. Inspect lift daily. Do not operate if it malfunctions or problems have been encountered.
2. Never attempt to overload the lift. The manufacturer's rated capacity is shown on the identification label on the power side column.
3. Do not override the operating controls or the warranty will be void.
4. Only trained and authorized personnel should operate the lift. Do not allow customers or bystanders to operate the lift or be in the lift area.
5. Position the lift support pads to contact the vehicle manufacturer's recommended lifting points. Raise the lift until the pads contact the vehicle. Check pads for secure contact with the vehicle, then raise the lift to the desired working height.
6. Some pickup trucks may require an optional truck adapter to clear running boards or other accessories.
7. **Caution! Never work under the lift unless the mechanical safety locks are engaged.**
8. Note that the removal or installation of some vehicle parts may cause a critical load shift in the center of gravity and may cause the vehicle to become unstable. Refer to the vehicle manufacturer's service manual for recommended procedures.
9. Always keep the lift area free of obstruction and debris. Grease and oil spills should always be cleaned up immediately.
10. Never raise vehicle with passengers inside.
11. Before lowering check area for any obstructions.
12. Before driving vehicle between the towers, position the arms to the drive-through position to ensure unobstructed clearance. Do not hit or run over arms as this could damage the lift and/or vehicle.
13. Before removing the vehicle from the lift area, position the arms to the drive-through position to prevent damage to the lift and /or vehicle.

2. SPECIFICATIONS

Capacity:
 Overall Width:
 Width Between Columns:
 Drive-Thru Width:
 Overall Height:
 Under Bar Clearance:
 Height to Lowered Lift Pads:
 Height to Raised Low Lift Pad:
 Height to Raised High Lift Pad:
 Front Arm Retracted Length:
 Front Arm Extended Length:
 Rear Arm Retracted Length:
 Rear Arm Extended Length:
 Maximum Lifting Height:
 Lift Time:
 Power Requirements (Standard):

8000 lbs.	3560 kg
134"	3404mm
107"	2717mm
86 1/2"	2197mm
144"	3658mm
140"	3556mm
4"	102mm
5 3/4"	146mm
8 3/4"	222mm
23 1/4"	591mm
36 3/4"	933mm
35 3/4"	908mm
57 1/4"	1454mm
77 1/4"	1962mm
45 seconds	
230 Volts AC, 1 Ph., 60Hz.	

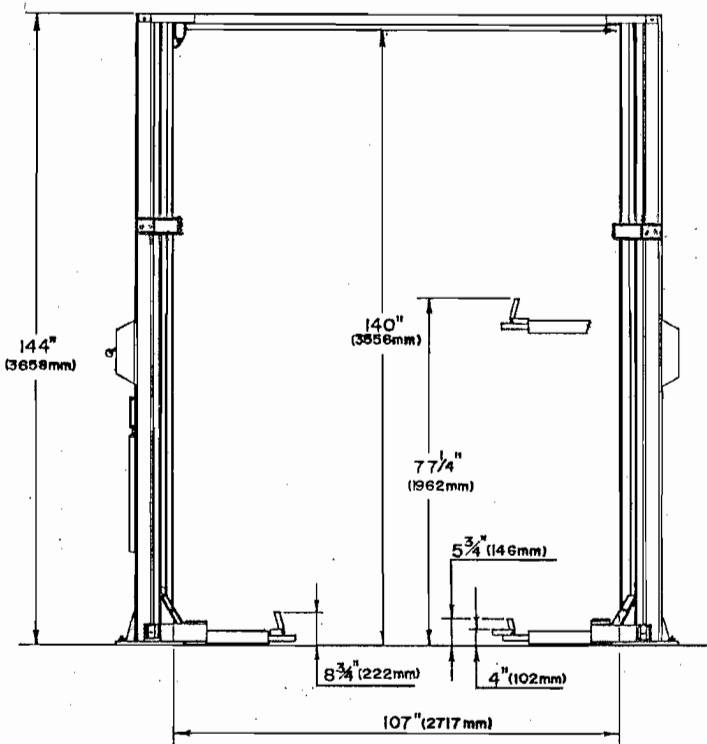


Figure 1

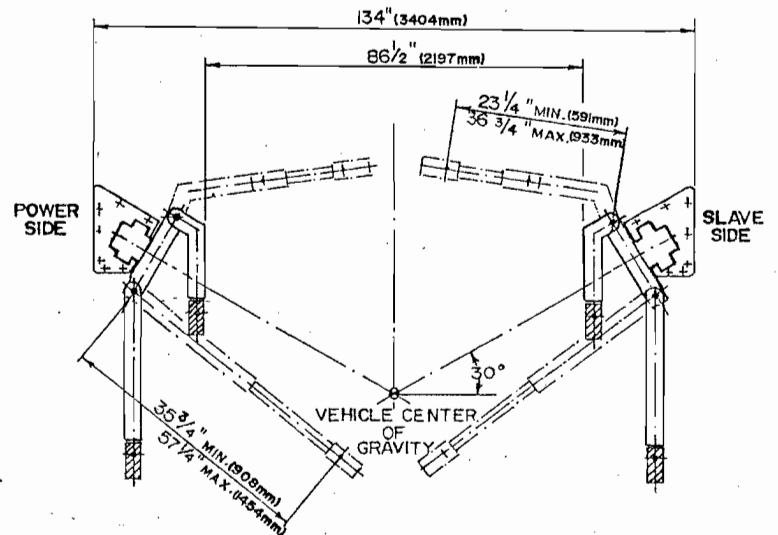


Figure 2

3. CONTENTS

The complete lift is contained in two (2) packages:

1. The **main structural components** are packed in a steel frame.
2. The remaining parts are packed in an **accessory box**.

Main Structural Components includes:

- 1pc. - Power side tower and carriage assembly
- 1pc. - Slave side tower and carriage assembly
- 1pc. - Crossmember
- 1pc. - Hydraulic line for crossmember
- 2pcs. - Tower Extensions

*w/ hydraulic lines for extensions
lines hydraulic lines for extensions*

Accessory box contents:

- 2pcs. - Front arms (Short) w/arm pins
- 2pcs. - Rear arms (Long) w/arm pins
- 2pcs. - Safety Covers w/Decals — *Decals?*
- 1pc. - Power Pack
- 1pc. - Safety release cable assembly
- 1pc. - Valve Block (C/W Fittings)
- 1pc. - Safety shut-off microswitch assembly
- 1pc. - Hardware package w/Packing List
- 1pc. - Owner's manual
- 1pc. - ALI manual "Lifting It Right"
- 1pc. - Automotive Lift Safety Tips
- 1pc. - Automotive Lift, Operation, Inspection and Maintenance manual
- 1pc. - "ALI" Quick Reference Guide

4. INSTALLATION REQUIREMENTS AND TOOLS

IMPORTANT: Lifts should only be installed on level concrete floors with a minimum thickness of five (5) inches. Concrete must have a minimum strength of 4000psi, and should be aged thirty (30) days prior to installation.

Tools Required:

- a. 16ft. Measuring Tape
- b. Chalk Line
- c. Rotary Hammer Drill
- d. 3/4" diameter Masonry Drill Bit
- e. Hammer
- f. SAE Wrenches and Ratchet Set
- g. 2ft. Level
- h. 4ft. Level
- I. Crow Bar
- j. One 12ft. Step Ladder
- k. Side Cutters
- l. Screwdrivers
- m. 15 ft. Bleeder Hose (Clear) w/ 3/8" JIC Swivel F fitting on one end
- n. 4" x 4" Wooden Blocks (for unpackaging)

5. INSTALLATION INSTRUCTIONS

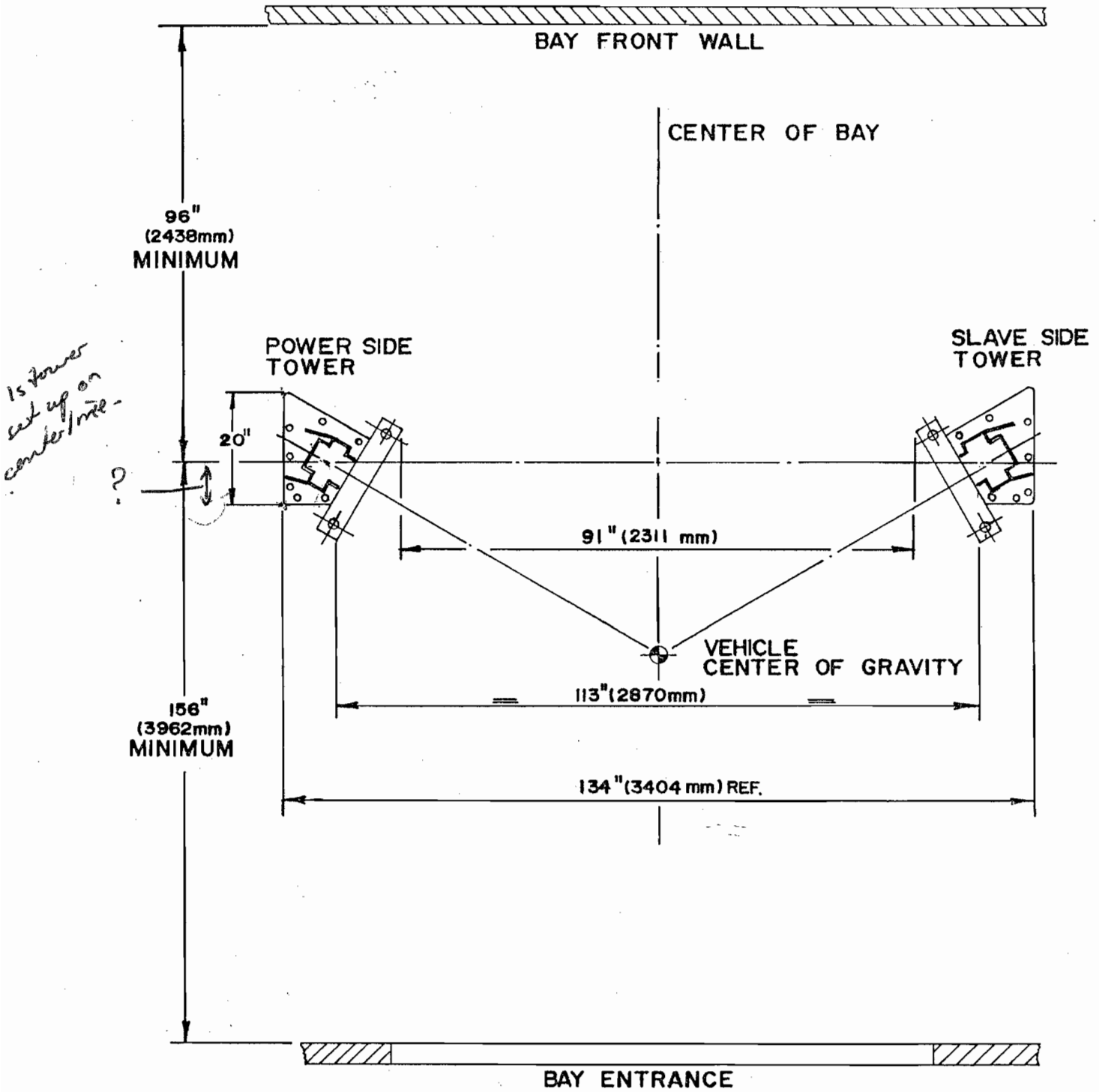
When the lift arrives on site, please read the owner's manual and check for any freight damages. Also, check the contents to make sure no parts are missing before starting installation. Gather all the tools listed and make sure the installation instructions are fully understood before commencing installation.

5.1 UNPACKING PROCEDURE

1. **Important!** Place the main structural components on wooden blocks so that the steel frames can be removed.
2. Remove plastic wrapping.
3. Remove crossmember, hydraulic line, and extensions.
4. Remove steel frame **S**.
5. Lay towers on floor with the carriage side up.
6. Check the installation area for obstructions. (Lights, Heating Ducts, Ceiling, Floor Drains...etc.)
7. Prepare the bay by selecting the location of the lift relative to the walls. Clear area of all packaging materials to avoid trip hazards. Draw a chalk line on the floor to represent the center line of the bay and a second chalk line crossing at 90° for locating the lift towers. Refer to **Figures 3**.

5.2 BAY LAYOUT

Figure 3



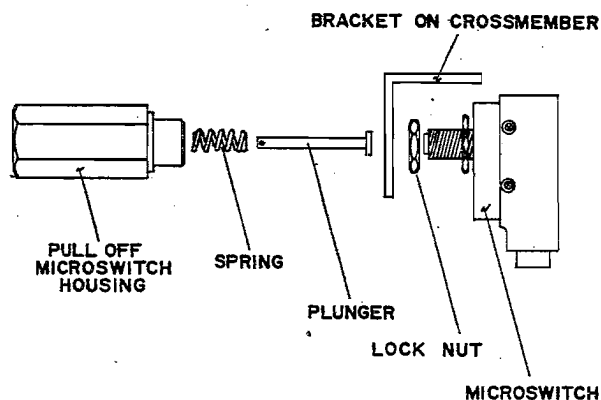
5.3 SAFETY SHUT OFF CABLE INSTALLATION

Note: The safety shut off will disconnect the power to the power pack when an obstruction touches the plastic coated cable. The safety shut off switch is factory pre-wired. Refer to Figure 4, and 5.

Note: This procedure can be done on the floor.

1. Remove the plunger and cable assembly from the microswitch box.
2. Remove the lock nut from the threaded end of the plunger.
3. Place the lock nut onto the actuator of the microswitch.
4. Hold the lock nut in place while installing the microswitch from the outside of the power side crossmember.
5. Turn the plunger onto the threaded end of the microswitch.
6. Before tightening, install the lock nut onto the threaded end of the plunger cable assembly.
7. Tighten the plunger to the microswitch using the lock nut.
8. Tighten the lock nut to hold the complete assembly in place. Care must be taken not to loosen the plunger assembly from the microswitch when tightening the lock nut.
9. Install one (1) 1/4" hex nut onto the threaded end of the eyebolt. Then, through the hole in the slave side crossmember bracket.
10. Install one (1) 1/4" hex nut from the other side of the crossmember bracket, **do not tighten.**

Figure 4

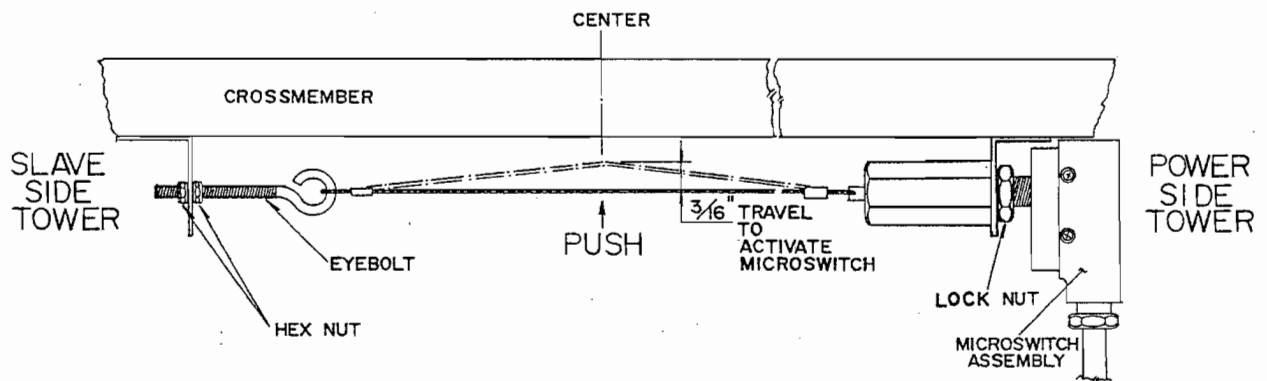


5.4 SAFETY SHUT OFF CABLE ADJUSTMENT

Hold the eyebolt and adjust the 1/4" hex nuts so that cable movement of 3/16" can be achieved. There should be an audible "click" when the center of the cable is pushed 3/16" upwards. Tighten hex nuts securely. Refer to **Figure 5** for details. **Final adjustment should be made after the lift installation is completed.**

SAFETY SHUT-OFF CABLE INSTALLATION AND ADJUSTMENT

Figure 5



5.5 TOWER POSITIONING AND SETUP

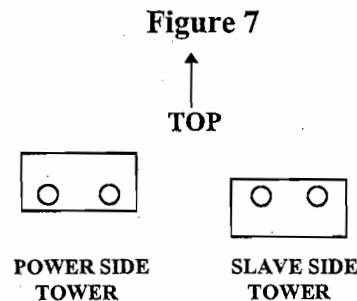
1. Locate the power side and slave side tower to the relative position as shown on **Figure 3**. Double check all dimensions.
2. Remove tower braces and carriage stops from both towers before installing tower extensions.

Note: The power and slave side extensions are differentiated by the location of the safety cable pulley bracket on top of each extension. Both brackets must be located at the rear of the lift.

3. Install the power side extension on top of the power side tower. **IMPORTANT! Lock washers, flat washers and hex nuts must be on the BACK OF TOWER.** Refer to **Figure 6**.

Figure 6

4. Re-install carriage stops and tower brace using four (4) hex head bolts, flat washers, lock washers, and hex nuts. **IMPORTANT!** Carriage stops must be re-installed as shown in **Figure 7**.



5. Repeat steps 3 and 4 for slave side tower installation.

6. Using a step ladder, install the crossmember. Raise and place the crossmember *over the* on top of the tower *using hooks*. Install and **tighten** the crossmember using four (4) 1/2"-13UNC x 1 1/2"LG. hex head bolts, flat washers, lock washers and hex nuts. *mounting hooks*

7. Check the towers to make sure *they are* it is located, and positioned in the correct location. Refer to **Figure 3**.

5.6 ARM INSTALLATION

1. Remove (4) 5/16"-18UNC x 3/4"LG. hex head bolts that are locking the arm pins to the arm. Install arms to carriages. Install so that the shorter arms (with the 30° bend) are on the front, and the long arms on the rear. Refer to **Figure 8**.
2. Grease and insert arm pins. Align notch on arm pins to the tapped hole on the arm. Using the 5/16" hex head bolts removed in previous step, reinstall and tighten securely.

*Note.
Add as per SBC manual

ARM INSTALLATION

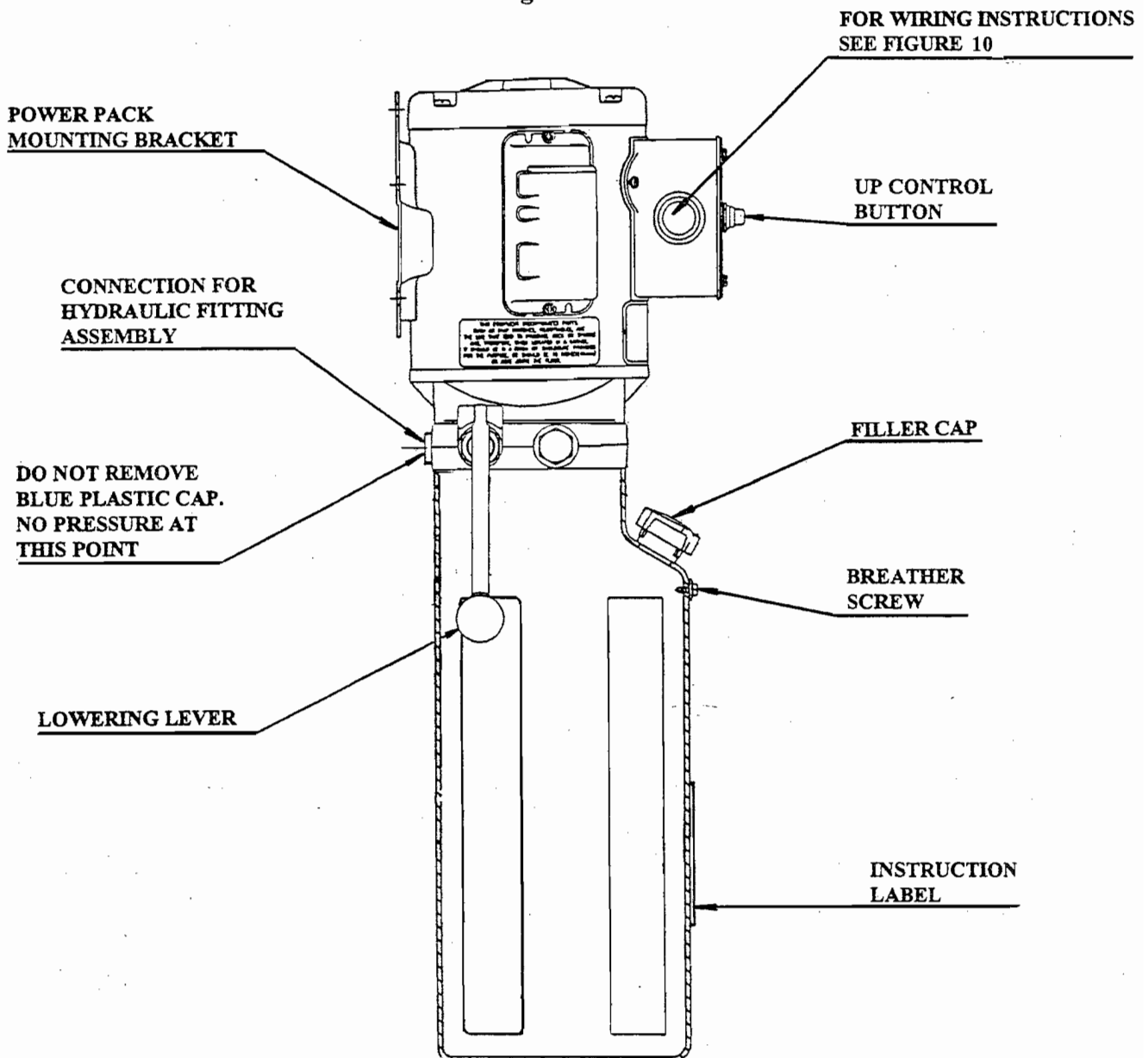
Figure 8

5.7 POWER PACK INSTALLATION

1. Remove the **red** plastic cap located at the rear of the power pack, and install the 90° fitting (page 27, item 18) located in the hardware kit.
2. Bolt power pack to the mounting bracket on the power side tower using four (4) 5/16"-18UNC x 1"LG. hex head bolts, lock washers, flat washers and nuts. Do not tighten.
3. A **certified electrician** must connect the 230Volt/Single phase power to the motor. The electrical diagram is provided, refer to **Figure 10**.

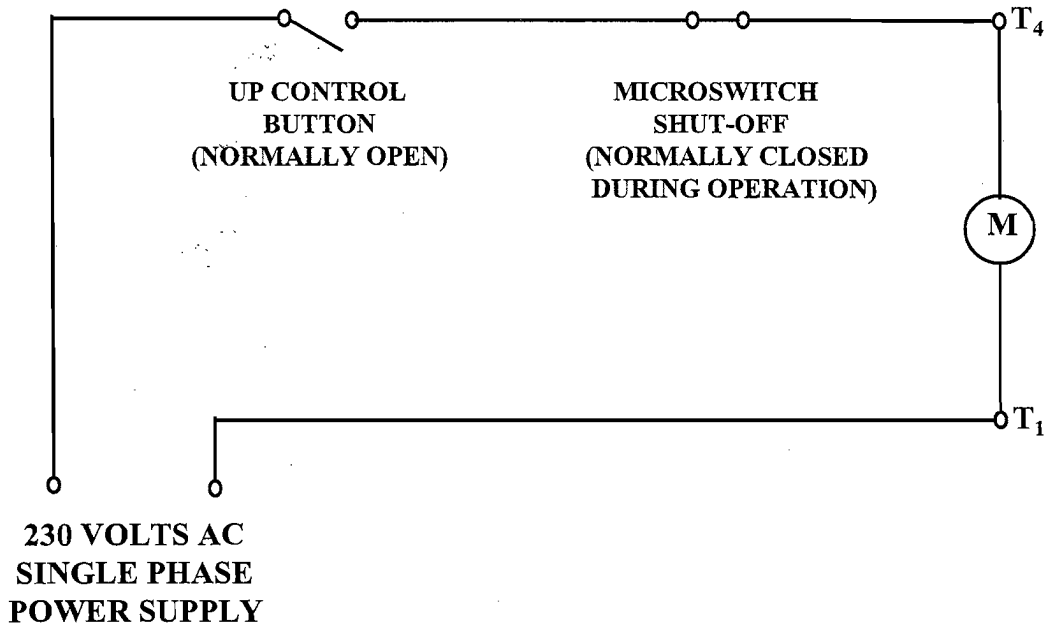
POWER PACK DETAILS

Figure 9



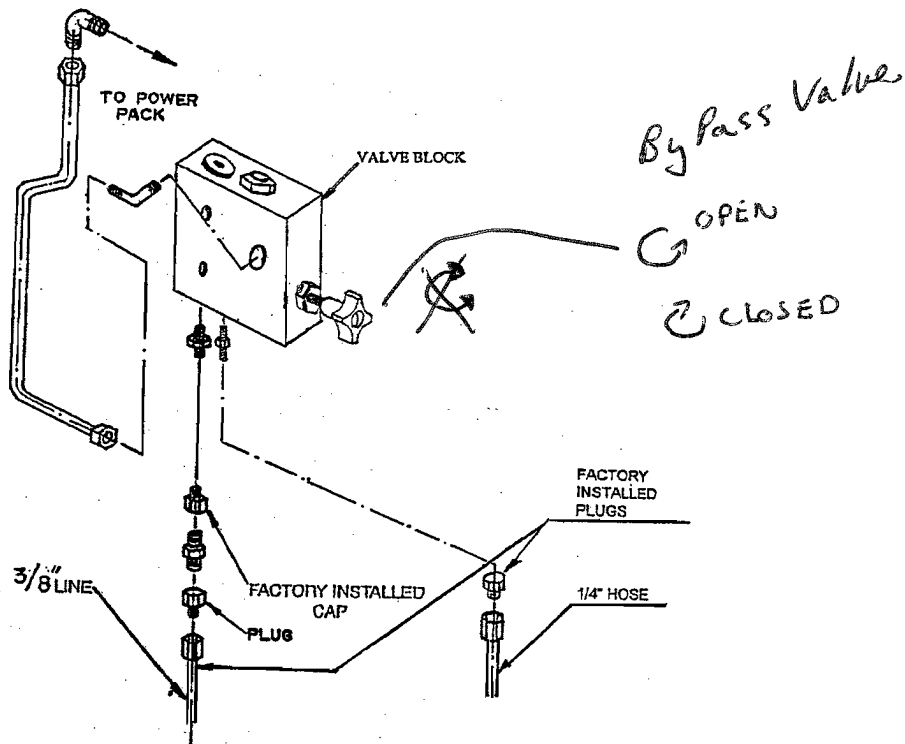
ELECTRICAL DIAGRAM

Figure 10



HYDRAULIC SYSTEM CONNECTIONS

Figure 11



5.8 HYDRAULIC SYSTEM INSTALLATION

Refer to **Figure 11** and **12**, and page ²⁸27 on the Hydraulic System Part List.

Note: Save hydraulic caps and plugs for future use.

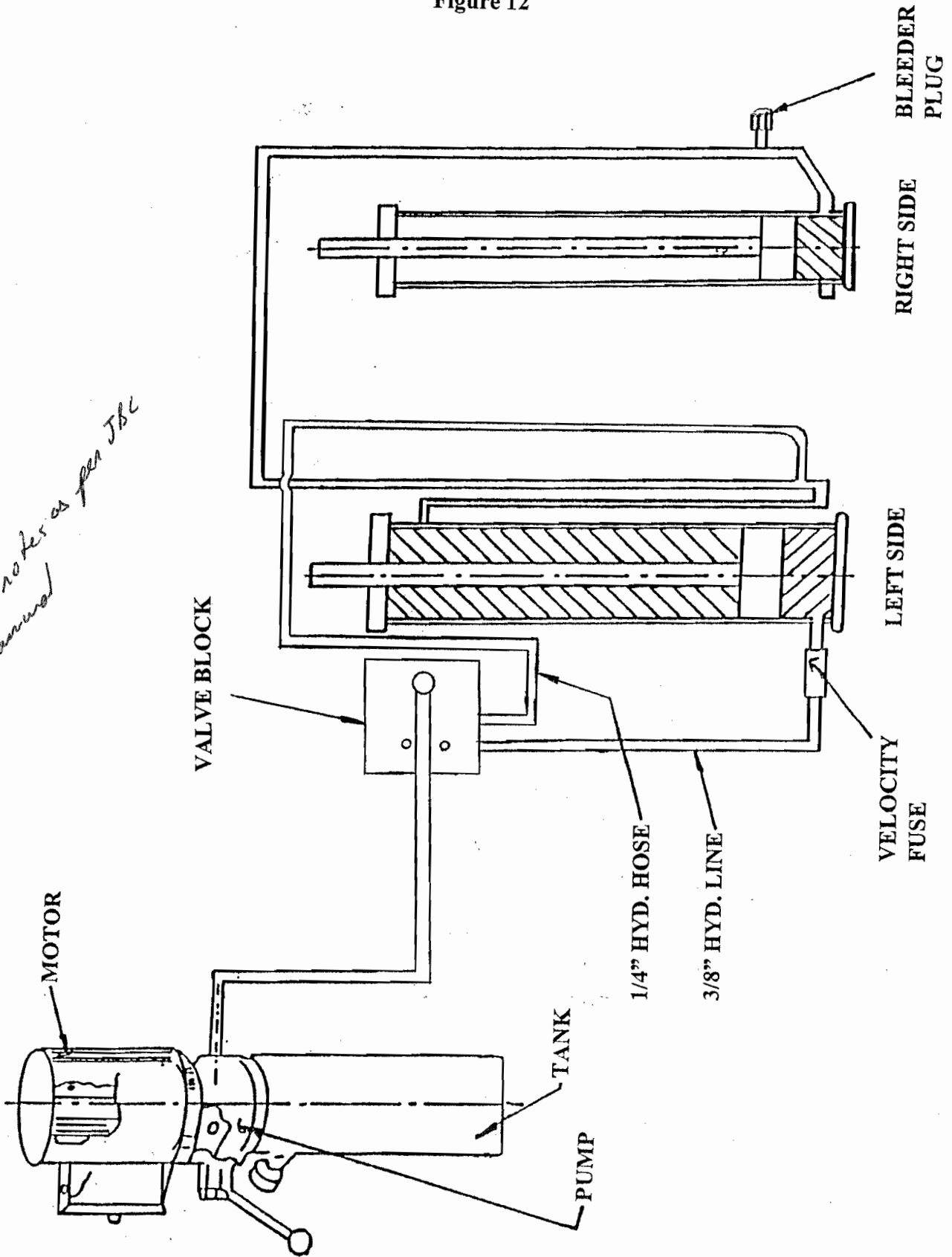
1. Do not tighten any hydraulic fittings until all connections have been made.
2. Remove plug from item 17. Install item 17 (page ²⁸27) to the 90° fitting on the power pack (item 18).
3. Install the valve block to the power side tower using items 23 and 5.
4. On the power side cylinder, remove the cap off item 28 at the bottom rear and install item 27.
5. Attach item 27 to item 53 on valve block.
6. At the bottom of the power side cylinder, remove the 1/4" cap from item 25 and attach it to item 51 on valve block.
7. Attach the other end of item 17 to the 90° fitting (item 18) on the valve block.
8. Remove the two caps on item 39 and place it in the crossmember. Connect the slave side end of this line to a bulkhead fitting (item 1) provided in the hardware kit. Assemble the same fitting to the hydraulic line (item 26) on the slave side extension
9. Repeat Step 9 for the power side.
10. TIGHTEN ALL HYDRAULIC CONNECTIONS.
Caution: Over tightening could cause the flare seal to break.
11. Remove filler cap from power pack, and fill reservoir with 3.5 Gal. (13.2 L) of ISO32 hydraulic oil (10 weight hydraulic oil). Remove breather screw when filling and replace when full. Refer to **Figure 9**.

*Add notes
as per JBC manual*

HYDRAULIC SYSTEM SCHEMATIC

Figure 12

Add notes as per JBL manual



5.9 SAFETY RELEASE CABLE ROUTING AND ADJUSTMENT

The mechanical safety automatically engages. To release the mechanical safety, you must first raise the lift approximately 2", then pull the safety release lever down. This disengages the power side safety dog and activates the safety cable to release the slave side safety dog.

1. Refer to **Figure 13** for safety release cable routing. The cable end which has a collar belongs to the slave side tower. The threaded end belongs to the power side tower.
2. Start routing from the slave side of crossmember. Feed the cable over the small pulley, then guide the cable down along the inside of the slave side roll formed tower channel. Pull the cable out through the opening in the back of the slave side tower near the safety dog.
3. Guide the cable up under the pulley towards the end of the safety dog. Use a 1/4" shoulder bolt to mount the collar end of the cable to the safety dog. Tighten the shoulder bolt securely.
4. Repeat step 2 for the power side tower.
5. Install one 1/4" - 20unc hex nut on the threaded end of the cable. Feed the threaded end of the cable through the hole in the bracket attached at the end of the safety dog. Install another 1/4" - 20unc hex nut as shown in **Figure 14**. **Do not tighten at this stage.**
6. Install safety release handle onto the power side safety dog. Lock into position using one 1/2"-13unc hex nut.
7. To adjust the safety release mechanism, raise lift until the safety dog is in the middle of the first safety slot. **At this position, the safety release lever should be able to move freely.**
8. Adjust the safety release cable on the power side mechanism by loosening the two hex nuts so that the cable lengths can be adjusted. Adjust cable lengths so that both safety dogs travel from full engagement position to full release position when the safety release handle is pulled. **Tighten both hex nuts against the bracket firmly when adjustment is completed.**
9. Lower the lift by depressing the lowering lever until both safety dogs engage into the first (bottom) safety slot. If safety dogs do not engage at the same time, HYDRAULIC ADJUSTMENT will be required. Please refer to HYDRAULIC ADJUSTMENT PROCEDURE for details.
10. Check the operation of lift with and without a vehicle. Install safety covers.
11. Install safety release lever knob. Securely.

SAFETY RELEASE CABLE ROUTING AND ADJUSTMENT

Figure 13

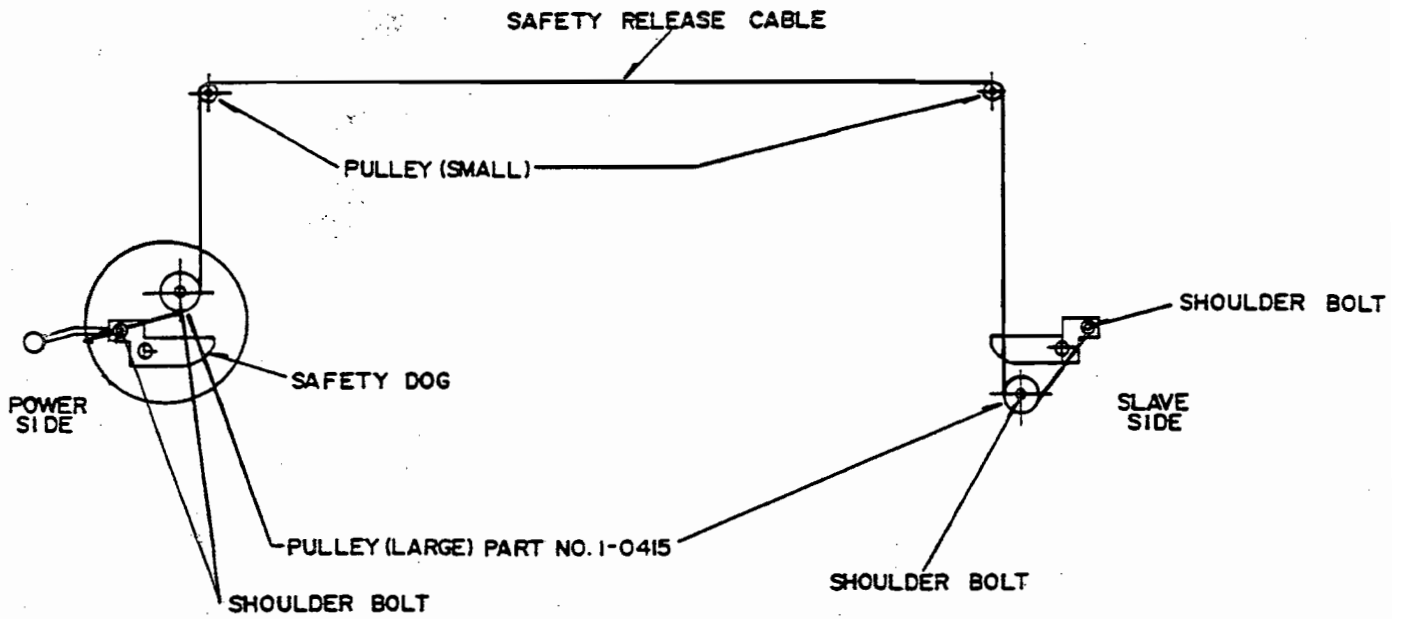
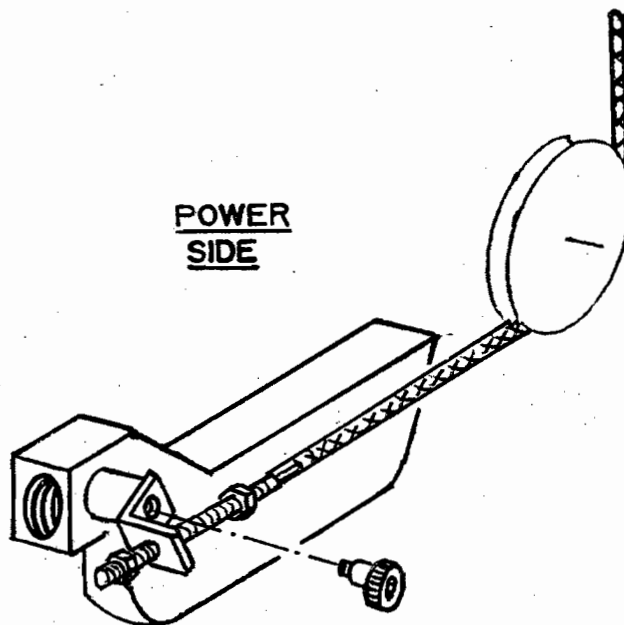


Figure 14



5.10 HYDRAULIC SYSTEM BLEEDING AND LEVELING PROCEDURE

1. Ensure that both carriages are fully lowered.
2. Remove the bleeder cap from the "T" fitting at the bottom of the slave side cylinder.
3. Attach a 15ft. clear bleeding hose to the same fitting, and place the open end of the hose into the power pack's reservoir's filler neck or in a container in which the oil came in for reuse. Hose should be secured during the bleeding procedure.
4. Close the by-pass valve, and power up until the power side carriage reaches the carriage stops.
5. Open the by-pass valve, and power up until oil is seen flowing out of the bleeder hose. (No Air Bubbles)
6. Remove the bleeding hose and reinstall the bleeder cap. Replace breather/filler cap.
7. Power up until slave side carriage reaches the carriage stops.
8. Close the by-pass valve and lower lift (both sides) until both carriages are fully collapsed. Power up and lower (14") lift a few times. When lift is fully down, open the by-pass valve and raise the slave side 2-3" higher than the power side. Close the by-pass valve.
9. Power up, and lower lift onto the first safety, on the power side. Open the by-pass valve and lower slave side onto the same first safety. Close the by-pass valve. Lift is now synchronized hydraulically.
10. Both power and slave sides must be completely down.
11. Check and add hydraulic fluid to power pack before cycling lift.
12. Set up a vehicle on the lift after anchoring to make sure hydraulics are operating properly.

*Add notes,
from JBC manual*

5.11 HYDRAULIC ADJUSTMENT PROCEDURE

Important! Should your lift come out of synchronization, i.e. one carriage is higher than the other, it is necessary to level the lift hydraulically.

A. When slave side is **higher** than the power side:

1. Lower lift on to the first safety on the power side.
2. Open by-pass valve. Push the down control lever. This will cause the slave side carriage to be lowered. Stop lowering when the slave side carriage stops on the first safety.

B. When **power** side is **higher** than the slave side:

1. Open the by-pass valve, raise lift until the slave side carriage is approximately 1-2" higher than the power side carriage. Stop raising and close by-pass valve.
2. Lower lift by pushing the down control lever. Stop lowering when the power side carriage touches the first safety.
3. Next, open the by-pass valve. Push the down control lever so that the slave side carriage lowers. Stop lowering when the slave side carriage touches the first safety. Close the by-pass valve.

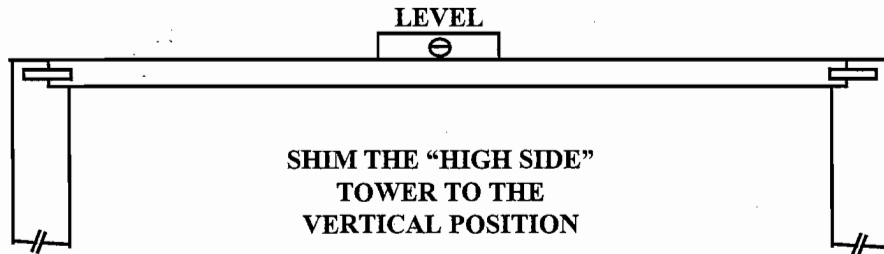
*Added notes
from JBC manual*

5.12 TOWER POSITIONING AND ANCHORING

Refer to Page ^{25 26 27} 24, 25 & 26.

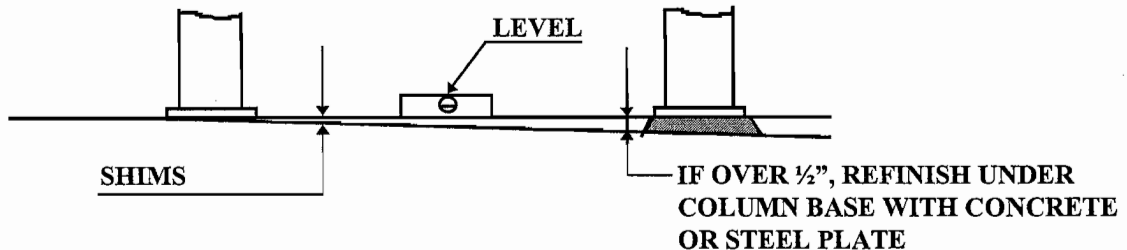
1. Using a 4ft. level on top of the crossmember, determine the high side tower. Refer to Figure 15.

Figure 15



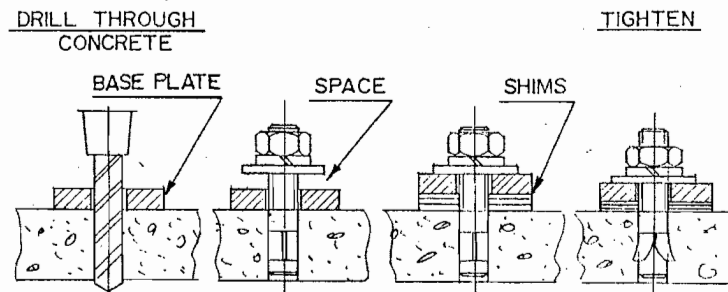
2. **Important!** The anchor bolts supplied allows for the maximum use of 1/2" of shims. **IN CASES WHERE MORE THAN 1/2" OF SHIMS ARE USED, REFINISH UNDER TOWER BASE WITH CONCRETE OR STEEL PLATE.** Refer to Figure 16.

Figure 16



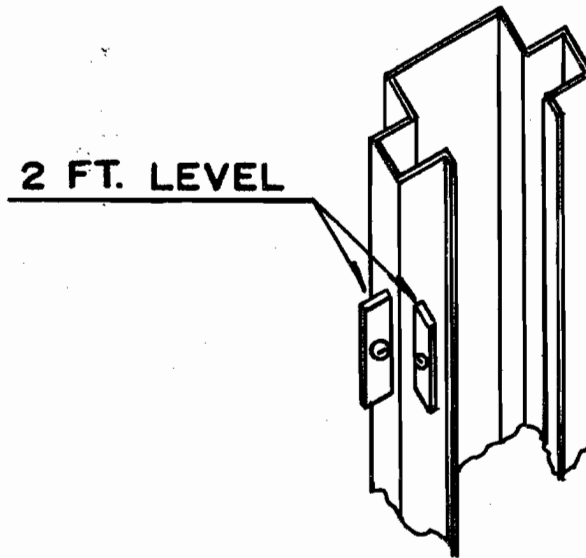
3. Using a rotary hammer drill with a 3/4" masonry drill bit, drill holes in the floor on the high side tower using the tower base plate, as a template. Make sure that the 3/4" masonry drill is in good condition.
4. Install the anchor bolts in the high side tower. **Do not tighten anchor bolts.**

Figure 17



5. Using a 2 ft. level on the side of the high tower, ensure that the tower is vertical. Refer to **Figure 18**. Using shims under the tower base plate, level the tower. Torque all anchor bolts to 150 ft.lbs. Refer to **Figure 17**.

Figure 18



5.13 SHIMMING OF THE REMAINING TOWER

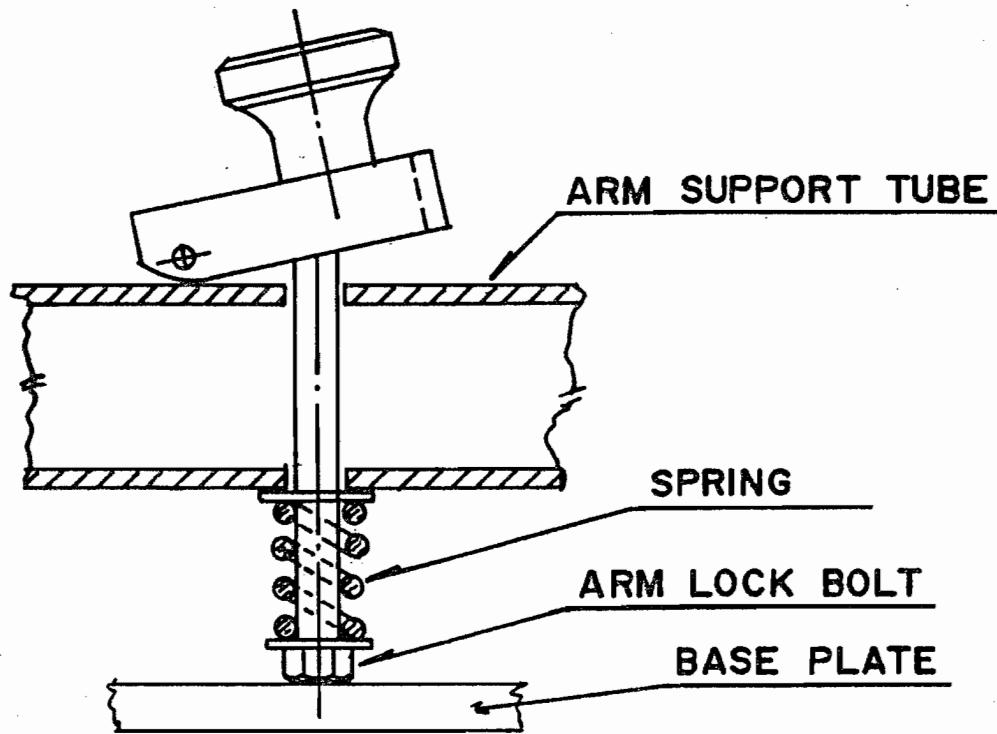
1. Check location and dimensions on remaining tower (**Figure 3**) then drill holes for the anchor bolts. Install anchor bolts, but **do not tighten**. Refer to **Figure 17**.
2. Place a 2ft. level on faces of the remaining tower and shim until the tower is both vertical and horizontal.
3. After ensuring the tower is level, torque all anchor bolts to 150 ft.lbs.
4. After tightening all anchor bolts, be sure to check that the lift remained level. Adjust if necessary.

5.14 ARM LOCKS ADJUSTMENT

The arm locks are designed to automatically engage when the lift is raised and disengage when the lift is fully lowered. To adjust, refer to **Figure 19**.

ARM LOCK ADJUSTMENT

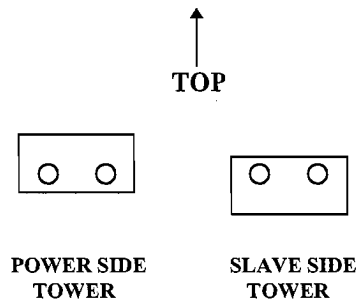
Figure 19



6. PERIODIC MAINTENANCE

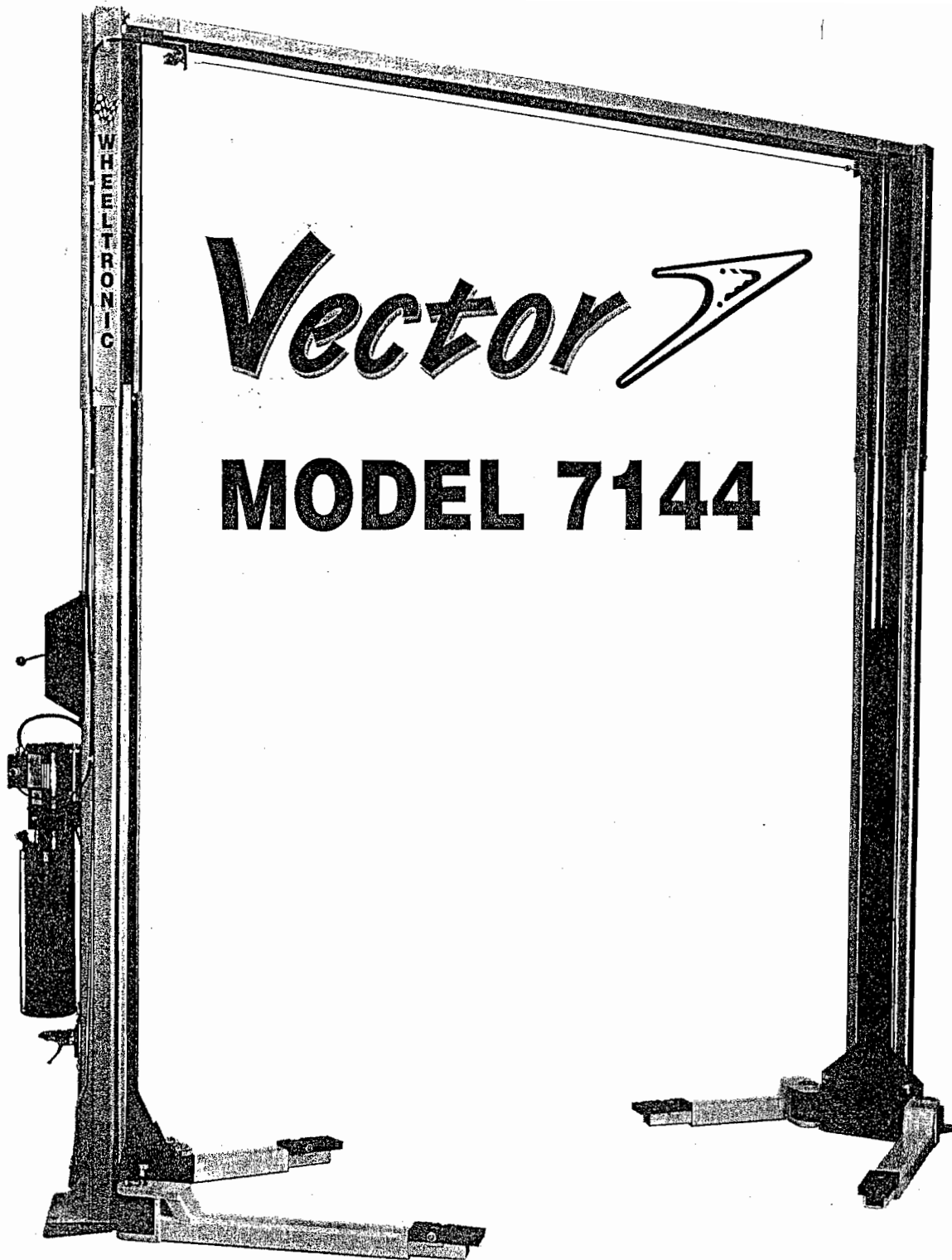
1. Inspect lift daily, to assure the mechanical safety is operating properly.
2. Check the telescopic arms for movement. Clean any grease or oil from the lifting adapters.
3. Raise and lower the lift at the beginning of each shift, without a vehicle on, to verify the lift is leveled and operating properly. Perform hydraulic leveling procedure when the lift is out of level.
4. Lubricate safety dog mechanisms with penetrating oil monthly.
5. Grease arm pins supports monthly.
6. Check hydraulic fittings for tightness.
7. Annual lift inspection as per Automotive Lift Operation, Inspection and Maintenance (ALOIM).
8. Apply a small amount of grease to glide bearing tracks periodically.
9. Check bolts on the carriage stops for tightness. Note: The carriage stop on the slave side tower should have the thicker side facing downwards, and on the power side facing upwards. Refer to **Figure 20**.

Figure 20



10. Check lift for synchronization periodically.
11. Change hydraulic oil every two years.

*add ALI placar card.
Ask Mike if this is necessary -
if so add to both.*



PARTS MANUAL

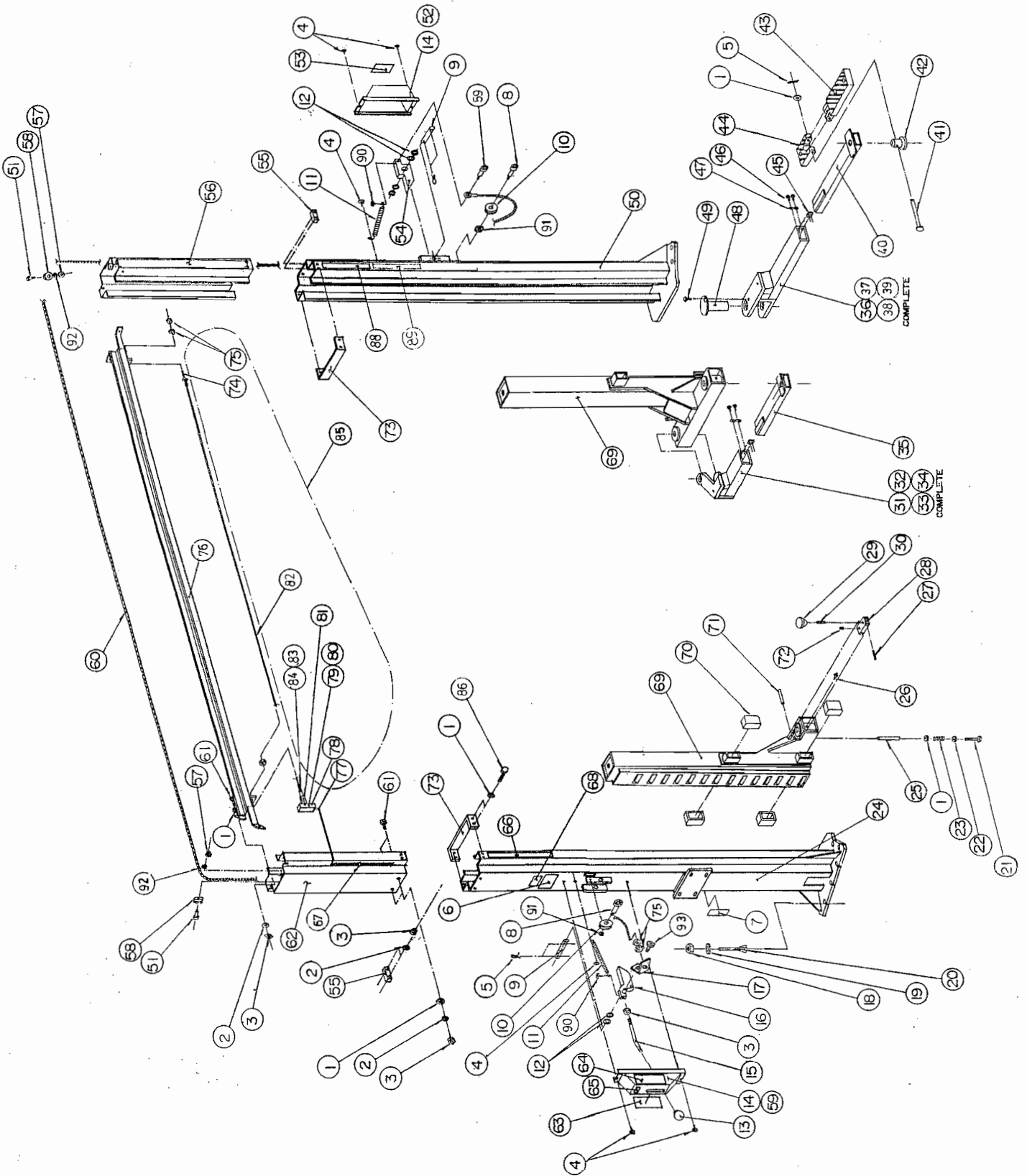
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6500 MILLCREEK DRIVE, MISSISSAUGA, ONTARIO L5N 2W6
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TWIN POST 7144 VECTOR PARTS LIST

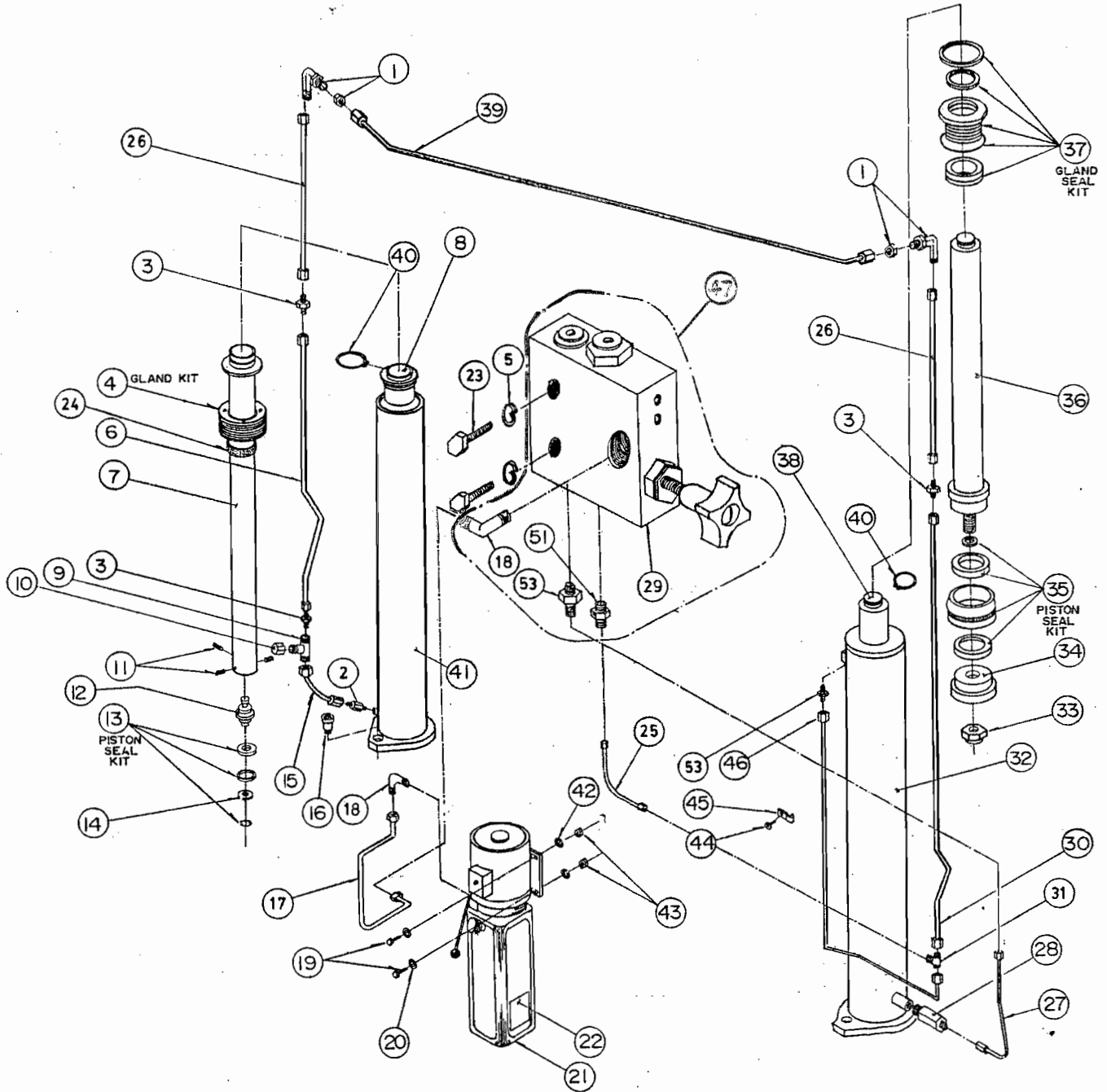


TWIN POST 7144 VECTOR PART LIST

ITEM	QTY.	DESCRIPTION	PART #
1	24	FLAT WASHER, 1/2"ID SAE	6-0248
2	16	LOCKWASHER, 1/2"ID	6-0059
3	17	HEX NUT, 1/2"-13UNC	6-0035
4	6	SELF TAPPING SCREW, #12 x 1/2"LG.	6-1134
5	8	COTTER PIN, 1/8"DIA. x 1"LG.	6-0267
6	1	ALI/ETL DECAL	6-0996
7	1	"HYDRAULIC LEVELING" DECAL	6-1151
8	2	SHOULDER BOLT, 3/8"DIA. x 1"LG.	6-0206
9	2	SAFETY PIN	1-0938
10	2	SAFETY PULLEY	1-0415
11	2	SAFETY SPRING	1-1115
12	8	FLAT WASHER, 51/64"ID x 1"OD x 1/16"THK.	6-0808
13	1	PLASTIC KNOB	6-1135
14	2	SAFETY COVER	3-0439
15	1	SAFETY RELEASE HANDLE	1-1113
16	1	SAFETY DOG, LEFT SIDE	2-0902
17	1	CABLE CONNECTING BRACKET	1-1291
18	14	HEX NUT, 3/4"-10UNC	6-0737
19	14	FLAT WASHER, 3/4"ID	6-0738
20	14	WEDGE ANCHOR, 3/4"-10UNC x 5 1/2"LG.	6-1379
21	4	HEX BOLT, 1/4"-20UNC x 3/4"LG.	6-0178
22	4	1/4"ID FENDER WASHER	6-0626
23	4	PLUNGER SPRING	1-0939
24	1	TOWER WELDMENT, LEFT SIDE	4-0316
25	4	PIVOT PLUNGER	1-0745
26	4	GREASE FITTING	6-0000
27	4	ROLL PIN, 1/8"DIA. x 1"LG.	6-0437
28	4	RACK	2-0249
29	4	KNOB	1-0208
30	4	THREADED ROD, 3/8"-16UNC x 1 1/2"LG.	1-1135
31	1	OUTER ARM TUBE WELDMENT, RIGHT SIDE	3-0561
32	1	OUTER ARM TUBE WELDMENT, LEFT SIDE	3-0562
33	1	LOCKING ARM ASSEMBLY, RIGHT SIDE	4-0464
34	1	LOCKING ARM ASSEMBLY, LEFT SIDE	4-0463
35	2	SHORT INNER ARM WELDMENT	2-1088
36	1	OUTER ARM TUBE WELDMENT, RIGHT SIDE	3-0560
37	1	OUTER ARM TUBE WELDMENT, LEFT SIDE	3-0559
38	1	LOCKING ARM ASSEMBLY, RIGHT SIDE	4-0462
39	1	LOCKING ARM ASSEMBLY, LEFT SIDE	4-0461
40	2	INNER ARM WELDMENT	2-1086
41	4	CENTER PIN	1-1099
42	4	ADAPTER PIN	1-1091
43	4	HIGH STEP POSITION ADAPTER	3-0582
44	4	LOW POSITION ADAPTER	3-0583
45	4	ARM STOP	1-0263
46	8	HEX BOLT, 1/4"-28UNF x 5/8"LG.	6-0339
47	8	LOCKWASHER, 1/4"ID	6-0056
48	4	ARM PIN	2-0439

ITEM	QTY.	DESCRIPTION	PART #
49	4	HEX BOLT, 5/16"-18UNC x 3/4"LG.	6-0423
50	1	TOWER WELDMENT, RIGHT SIDE	4-0317
51	2	SHOULDER BOLT, 3/8"DIA. x 5/8"LG.	6-0069
52	1	SAFETY COVER w/DECALS, RIGHT SIDE	0-0203
53	1	"SAFETY INSTRUCTIONS" DECAL	6-0594
54	1	SAFETY DOG, RIGHT SIDE	2-0872
55	4	CARRIAGE STOP	1-1119
56	1	EXTENSION WELDMENT, RIGHT SIDE	3-0449
57	2	HEX NUT, 5/16"-18UNC	6-0294
58	2	SAFETY CABLE PULLEY	1-1116
59	1	SHOULDER BOLT, 3/8"DIA. x 1 1/4"LG.	6-0908
60	1	SAFETY RELEASE CABLE, 285 1/2"LG.	1-1305
61	8	HEX BOLT, 1/2"-13UNC x 1 1/2"LG.	6-0291
62	1	EXTENSION WELDMENT, LEFT SIDE	3-0450
63	1	"WARNING" DECAL	6-0595
64	1	"CAUTION" DECAL	6-0592
65	1	"SAFETY RELEASE" DECAL	6-0603
66	1	"VECTOR" DECAL	6-1278
67	3	ELECTRICAL CABLE CLIP, 3/8"	6-1230
68	1	SERIAL # TAG	6-1118
69	1	CARRIAGE WELDMENT, R.S.	4-0420
70	8	GLIDE BEARING	2-0772
71	1	CARRIAGE WELDMENT, L.S.	4-0424
72	4	SET SCREW., 1/4"-20UNC X 1/2"LG.	6-0438
73	2	TOWER BRACE	2-0883
74	1	EYEBOLT, 1/4"-20UNC x 3"LG.	6-0904
75	4	HEX NUT, 1/4"-20UNC	6-0032
76	1	CROSSMEMBER WELDMENT	3-0440
77	1	ELECTRICAL CABLE	6-1173
78	2	ROUND HD. SCREW, #5-40UNC x 1 1/8"LG.	6-0912
79	1	MICROSWITCH BOX	6-0914
80	1	MICROSWITCH	6-0916
81	1	PULL OFF MICROSWITCH HOUSING	2-0753
82	1	CABLE	1-1126
83	1	CLEVIS PIN	6-0935
84	1	PLUNGER SPRING	1-0965
85	1	SAFETY SHUT-OFF MICROSWITCH ASSEMBLY	2-0958
86	8	HEX BOLT, 1/2"-13UNC x 2 1/2"LG.	6-0767
87	1	SAFETY COVER w/DECALS, LEFT SIDE	0-0204
88	1	"WHEEL" DECAL	6-0478
89	1	"TRONIC" DECAL	6-0480
90	2	SELF TAPPING SCREW, #10 X 3/8"LG.	6-0169
91	2	FLAT WASHER, 5/16" I.D.	6-0295
92	2	LOCKWASHER, 5/16" I.D.	6-0296
93	1	SHOULDER BOLT, 5/16"DIA. 1/4"LG.	6-0185
94	4	PIVOT PIN	1-0333

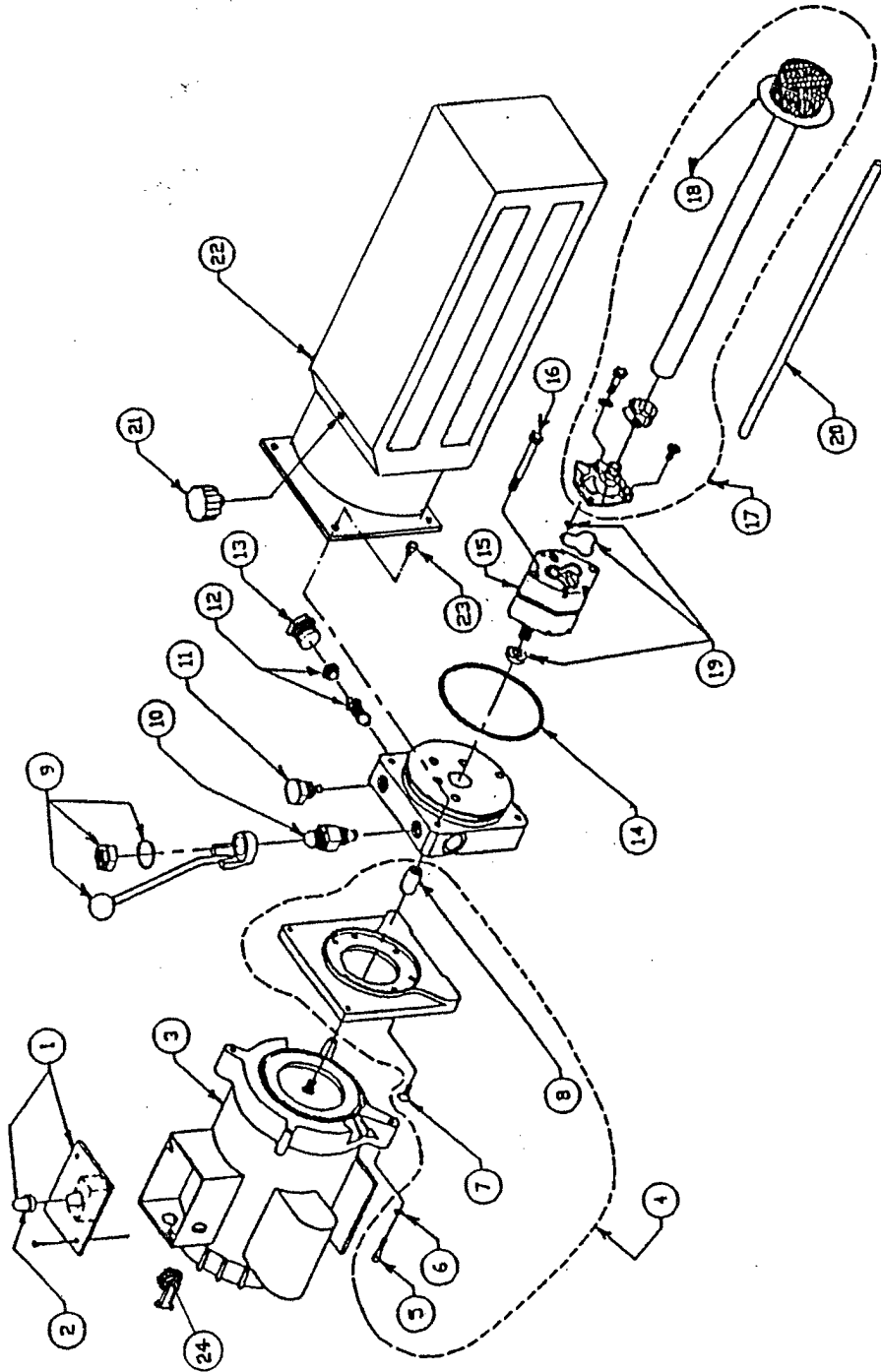
TWIN POST 7144 VECTOR HYDRAULICS



TWIN POST 7144 VECTOR HYDRAULIC PART LIST

ITEM	QTY.	DESCRIPTION	PART #
1	2	ELBOW BULKHEAD 90°, 3/8"JIC-3/8"JIC	6-0012
2	1	ADAPTER, 3/8"NPT - 3/8"JIC x 2 1/4"LG.	6-0345
3	3	UNION, 3/8"JIC MALE	6-0286
4	1	GLAND SEAL KIT, RIGHT SIDE	0-0162
5	2	LOCKWASHER, 1/4" I.D.	6-0056
6	1	HYDRAULIC TUBE ASSEMBLY	2-0716
7	1	PISTON TUBE, RIGHT SIDE	2-0801
8	1	HYDRAULIC CYLINDER ASS'Y, RIGHT SIDE	3-0430
9	1	TEE, 3/8" SWIVEL NUT JIC MALE	6-0284
10	1	CAP, 3/8"JIC	6-0021
11	3	ALLEN HD. SETSCREW, 1/4"-20UNC x 3/8"LG.	6-0580
12	1	PISTON	2-0619
13	1	PISTON SEAL KIT, RIGHT SIDE	0-0159
14	1	KEEPER WASHER	1-0725
15	1	HYDRAULIC TUBE ASSEMBLY	1-0102
16	2	SHOULDER BOLT, 1/2" x 5/8"LG.	6-0425
17	1	HYDRAULIC TUBE ASSEMBLY	2-1140
18	2	ELBOW 90°, 9/16"SAE M-3/8"JIC M	6-0804
19	4	HEX BOLT, 5/16"-18UNC x 1"LG.	6-0293
20	8	FLAT WASHER, 5/16"ID	6-0061
21	1	POWER PACK	6-1146
22	1	"LIFT OPERATION" DECAL	6-1265
23	2	HEX HD. BOLT 1/4" 20UNC x 1 3/4"LG.	6-0028
24	1	FELT STRIP	1-0734
25	1	HYDRAULIC HOSE ASSEMBLY	1-1341
26	2	HYDRAULIC TUBE ASSEMBLY	2-0878
27	1	HYDRAULIC TUBE ASSEMBLY	2-0886
28	1	VELOCITY FUSE, 4GPM	6-0422
29	1	HYDRAULIC VALVE BLOCK	6-1362
30	1	HYDRAULIC TUBE ASSEMBLY	2-0888
31	1	BRANCH "T" JIC ALL ENDS	6-1372
32	1	CYLINDER BARREL WELDMENT, LEFT SIDE	3-0428
33	1	UNI-TORQUE LOCKNUT, 7/8"-9UNC	6-0631
34	1	PISTON SPIGOT	2-0521
35	1	PISTON SEAL KIT, LEFT SIDE	0-0160
36	1	PISTON ROD WELDMENT, LEFT SIDE	2-0793
37	1	GLAND SEAL KIT, LEFT SIDE	0-0206
38	1	HYDRAULIC CYLINDER ASS'Y, LEFT SIDE	4-0289
39	1	HYDRAULIC TUBE ASSEMBLY	2-0879
40	2	CIRCLIP	6-0340
41	1	CYLINDER BARREL WELDMENT, RIGHT SIDE	2-0802
42	4	LOCKWASHER, 5/16"ID	6-0674
43	4	HEX NUT, 5/16"-18UNC	6-0294
44	7	ROUND HD. BOLT, 1/4"-20UNC x 3/8"LG.	6-1353
45	7	TUBE CLAMP	6-0170
46	1	HYDRAULIC TUBE ASSEMBLY	2-0887
47	1	HYDRAULIC VALVE BLOCK ASSEMBLY (C/W FITTINGS)	6-1389
51	1	ADAPTER, 1/4" NPT, M - 1/4" JIC M	6-0281
53	2	ADAPTER, 1/4"NPT MALE - 3/8"JIC MALE	6-0276

POWER PACK



TWIN POST 7144 VECTOR POWER PACK PART LIST

ITEM	QTY.	DESCRIPTION	PART #
1	1	MICROSWITCH	6-0881
2	1	MICROSWITCH BOOT	6-1084
3	1	MOTOR 230 VAC, 1PH, 60 HZ	6-0773
4	1	MOTOR ADAPTER KIT	0-0197
5	4	SOCKET HD.CAP SCW, 1/4"-20UNC X 5/8"LG.	6-1085
6	4	LOCKWASHER, 1/4" I.D.	6-0056
7	4	ALLEN HD. FLAT SCW, 1/4"-20UNC X 3/4"LG.	6-1086
8	1	COUPLING	6-0774
9	1	RELEASE BRACKET & HANDLE ASSEMBLY	6-0776
10	1	VALVE CARTRIDGE RELEASE	6-0880
11	1	VALVE CARTRIDGE CHECK	6-1087
12	1	FIXED RELIEF VALVE, RV17	6-1317
13	1	RELIEF VALVE CAP	6-1089
14	1	RESERVOIR "O"RING	6-0875
15	1	PUMP ASSEMBLY	6-0782
16	2	PUMP MOUNTING BOLT	6-1090
17	1	INLET PLUMBING KIT	0-0198
18	1	INLET HOSE / FILTER ASSEMBLY	6-0786
19	1	PUMP "O" RING KIT	0-0199
20	1	RETURN TUBE	6-0783
21	1	BREATHER-FILLER CAP (PLASTIC)	6-1376
22	1	RESERVOIR (PLASTIC)	6-1399
23	4	RESERVOIR SCREW	6-1091
24	1	CABLE CONNECTOR, 90°, 3/8"	6-1133